

#### **UID for DoD Maintainers**

#### **Expectations & Issues**

EID (12V)194532636

Orig. Part No. (1P)1234

Serial No. (S)786950

**Greg Kilchenstein, ODUSD(MPP&R)** 

Depot UID Off-Site 23 February, 2005



#### **Outline**



- Why is DoD doing UID?
- What materiel is being uniquely identified?
- What's expected of the DoD Sustainment Community?
  - Maintenance
  - Supply
  - Transportation
  - Engineering
- What's in it for maintainers?
- Where are we now? Next steps?



#### Why is DoD Doing UID?



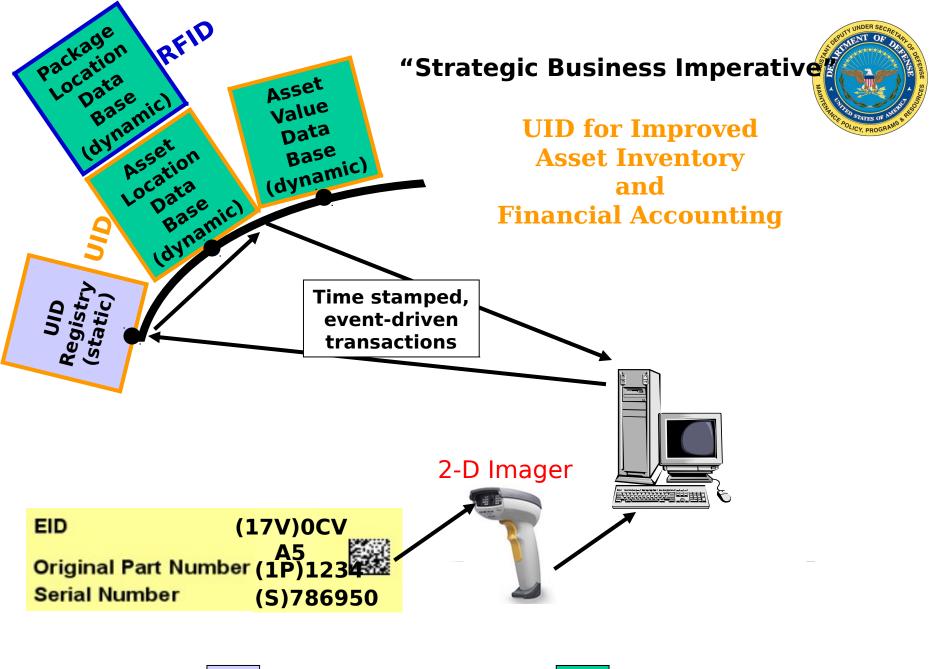
- GAO Reports
  - DoD's Inventory exceeds both current & war reserve requirements
    - ...but key spare parts are too often not available
      - Lack of adequate accountability over material shipments
      - Lack of effective monitoring of defective spare parts
- Continuing problem with Audits of DoD Materiel
  - Require improved tracking and valuation of plant, property and equipment (PP&E) to comply with Federal Accounting Standards Advisory Board (FASAB) standards
    - Goal is having a "clean" audit opinion by FY 2007

# trategic Business Imperative RELEGIANTICAL PROGRAMENT OF THE SOUTH PROGRAMENT

- On 29 July 2003, the Acting Under Secretary of Defense (Acquisition, Technology and Logistics) signed the "Policy for Unique Identification (UID) of Tangible Items New Equipment, Major Modifications, and Reprocurements of Equipment and Spares".
- Strategic outcomes were defined:
  - Enhance logistics, contracting, and financial business transactions supporting U.S. and coalition troops.
  - Enable DoD to consistently capture the value of items it buys, control these items during their use, reduce operating costs and combat counterfeiting of parts.
  - Enable DoD to make appropriate entries into its property accountability, inventory, and financial management information systems toward achieving compliance with the Chief Financial Officers Act.



- UID enables better accountability of DoD stuff...
  - How much stuff does DoD have?
  - Where did the stuff come from?
  - When did DoD get the stuff?
  - What contract was used
  - Where is the stuff today?
  - How much is the stuff worth?

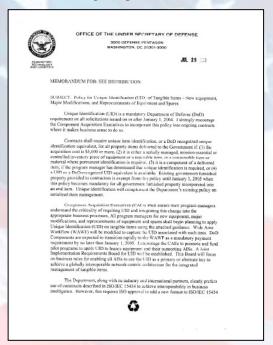




### What Materiel is Being Uniquely Identified?

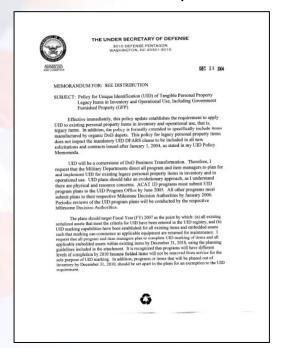


#### USD(AT&L) Policy Memo 29 July, 2003



- New tangible items
  - Begin NLT 1 Jan 2004
    - commercial purchases
  - Begin NLT 1 Jan 2005
    - depot manufactured items

#### USD(AT&L) Policy Memo 23 December, 2004

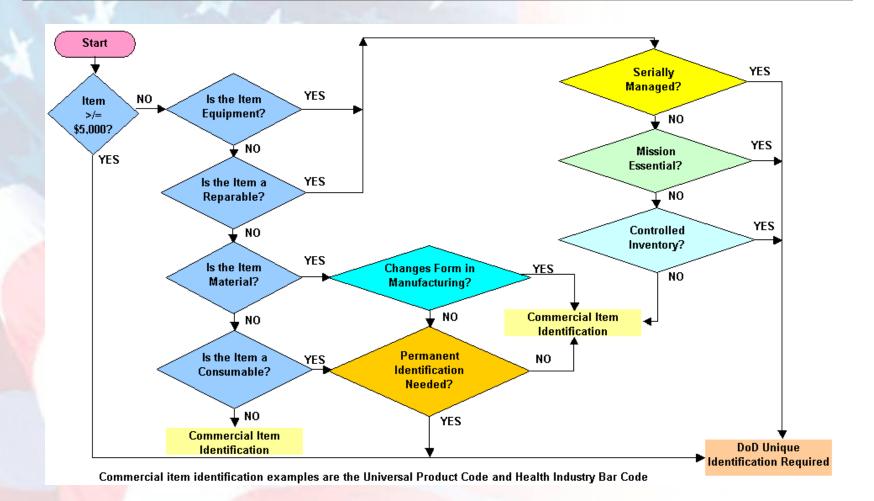


- Legacy items in inventory
  - IOC Jul 2005
    - pilot depots
  - Complete NLT Sep 2007
    - all existing serialized items
  - Complete all items NLT Dec 2010



### What Materiel is Being Uniquely Identified?

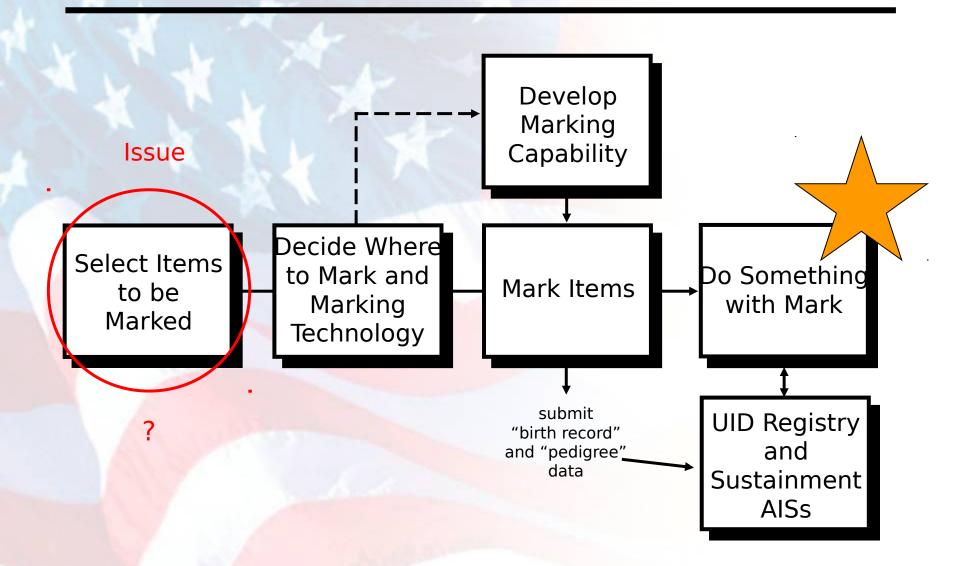




## What is Expected of the OD Sustainment Community Control of the Control

- 1. Select which items to mark (?)
- 2. Mark depot manufactured items
  - Transact static "birth record" data to the UID Registry
  - Transact baseline "pedigree" data to the designated dynamic data base(s)
- 3. Mark legacy items
  - Transact static "birth record" data to the UID Registry
  - Transact baseline "pedigree" data to designated dynamic data base(s)
- 4. Update designated dynamic data base(s) every time a reportable trigger event occurs during the life of each UID item
- 5. Capitalize on the "pedigree" information available from the UID Registry and the dynamic data bases to make informed decisions about actions needed to improve DoD materiel readiness and reduce weapon system sustainment costs

## What is Expected of the DoD Sustainment Community

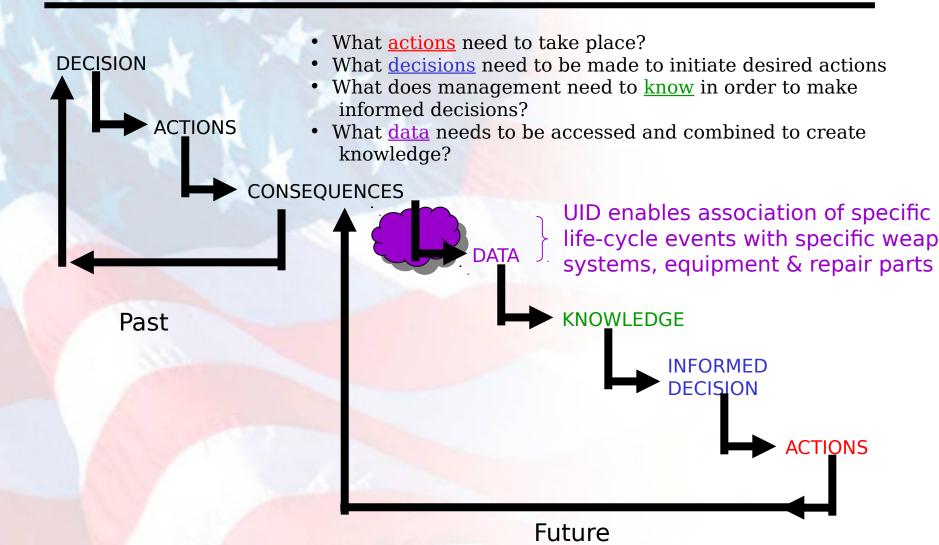


#### What's In It for Maintainers? **Sustainment Value-Chain** Performance Evaluation at the Item Level Field Depot Maint Maint. Retrograde MATERIAL Non-RFU Retrograde Tracability SUPPORT **WEAPONS** Tracability orecasting **DoD Maintenance Enterprise** Non-RFU (Depot & Field) **PARTS** Rebair Weapons Cycle Reliability Parts Maint. Time Elements elia<mark>b</mark>ility Manhours REPAIRED Reþair Cycle **PARTS** Repair Mat' Time Usage Maintenance WARFIGHTE Planning **Supply** Training & Support **Training** Packaging, Support \_ogistics ndlina. REPAIRED Materiel Design Manpower & Interface **WEAPONS** Transport Personnel Availability ort Computer Eaui ment Resources **Facilities** Support Technical COMMODITIES Data & SUPPLIES **NEW PARTS** DoD **Acquisition NEW WEAPONS Enterprise DoD Supply DoD Distribution REDISTRIBUTED WEAPONS Enterprise Enterprise**



### UID Objective: Informed Decision Making







### Informed Decision Making Integrating UID and SIM



- "It is Department of Defense (DoD) policy that the Military Departments and Defense Agencies will facilitate equipment maintenance by establishing a serialized item management (SIM) program to:
  - Identify populations of select items,
  - Mark all items in the population with a universally unique identification number, and
  - Enable the generation, collection and analysis of maintenance data about each specific item."
- "SIM programs shall enable and encourage the effective management of populations of select items throughout their life cycle. Further, these programs shall focus on providing comprehensive and timely data about each item. SIM programs will build on existing serial number tracking (SNT) initiatives and leverage the continuing progress in automatic identification technology (AIT)."

Policy for Department of Defense Serialized Item Manag Deputy Under Secretary of Defense for Logistics & Mate



#### **Integrating UID and SIM**



 "PMs shall optimize operational readiness through affordable, integrated, embedded diagnostics and prognostics, and embedded training and testing; serialized item management; automatic identification technology (AIT); and iterative technology refreshment".

**DoDI** 5000.2 - 12 May 2003



#### **Integrating UID and SIM**



• "[Service maintenance programs shall]...employ Serialized Item Management (SIM) techniques to effectively manage populations of select items throughout their life cycle. SIM programs shall focus on providing comprehensive and timely data for each identified item. DoD materiel shall be equipped with Automatic Identification Technology (AIT) allowing for paperless identification, minimizing data entry requirements, and facilitating digital storage and retrieval of essential information including maintenance history. SIM programs shall build on existing serial number tracking initiatives and leverage continuing progress in AIT."

DoDD 4151.18 - 31 March 2004

### Integrating UID and SIM tem Birth Record + Item "Pedigree" Datasers

- 1. UID
- 2. AI
- 3. IAC
- 4. EID
- 5. Part no.
- 6. Serial no.
- 7. Description
- 8. Unit of measure
- 9. Quantity shipped
- 10. Contractor
- 11. Contract no.
- 12. CLIN/SLIN/ELIN
- 13. Unit Acq. Cost
- 14. Acceptance Code
- **15.** Shipping Date
- 16. Ship-to Code

**Configuration History** 

**Usable On Code** 

**Failure History** 

**Malfunction Code(s)** 

**Action Taken Code(s)** 

**Current MTBF** 

**Repair Location(s)** 

**Repair Technician(s)** 

**DLH/Repair** 

MH \$/Repair

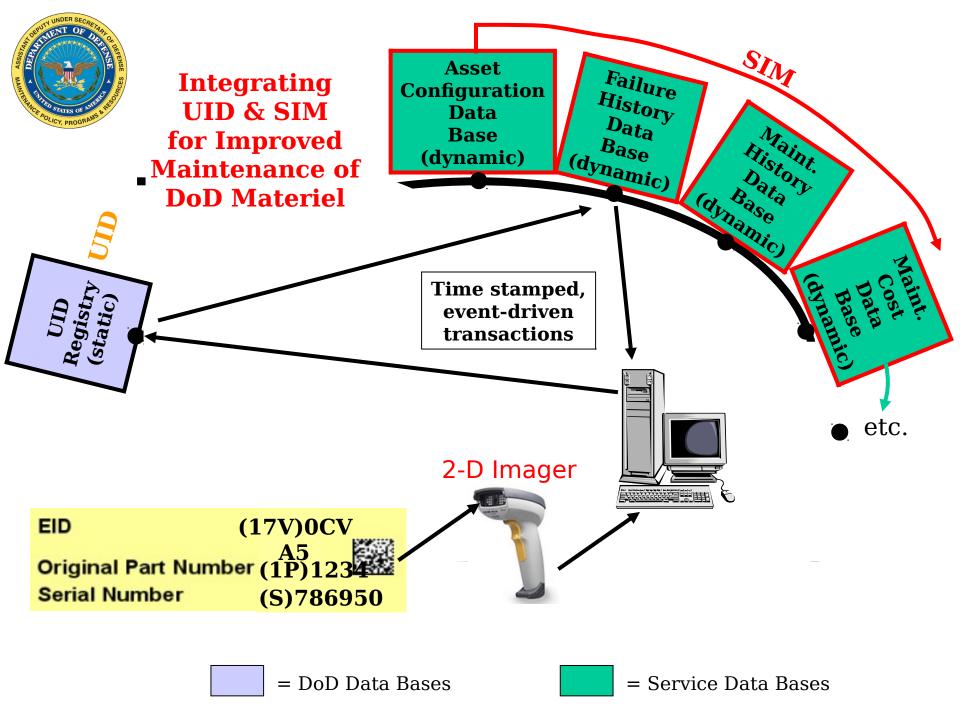
Repair Mat'l/Repair

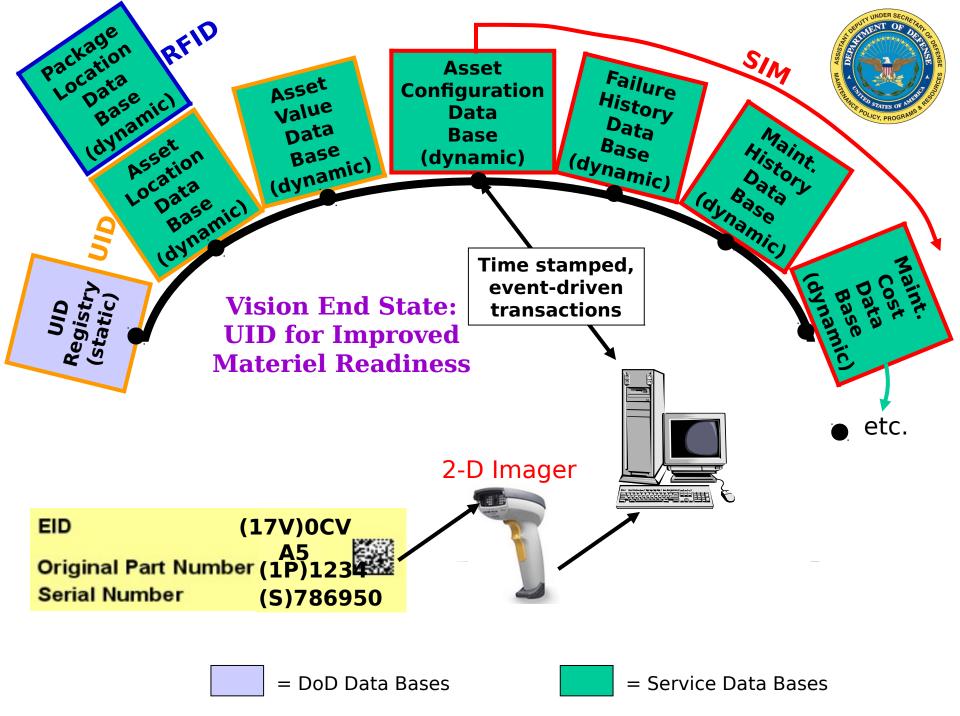
Mat'l \$/Repair

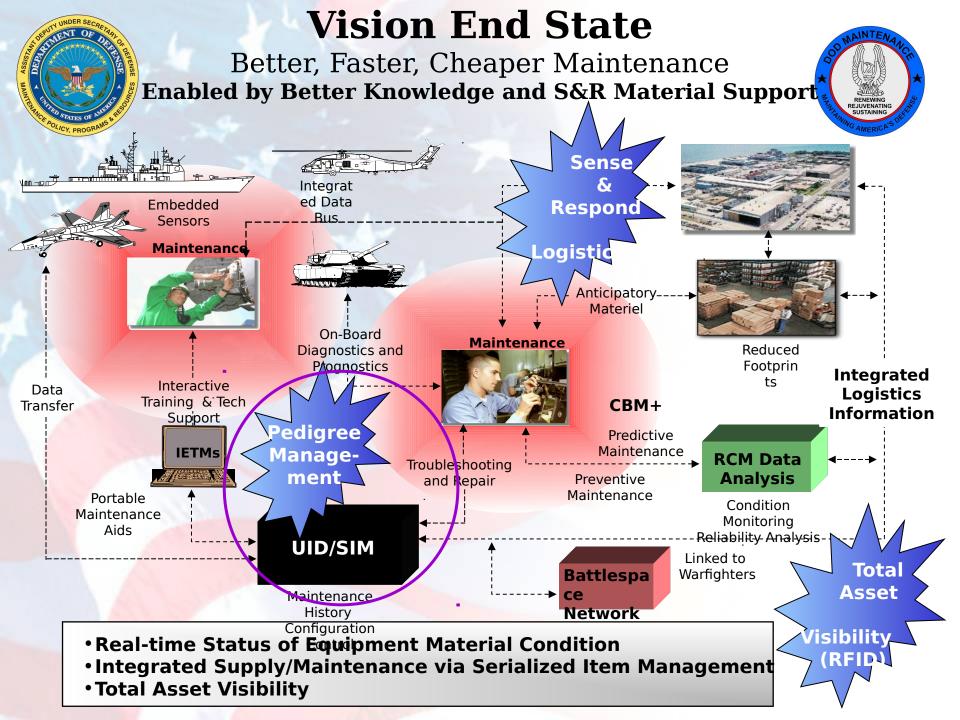
**Cycle Time/Repair** 

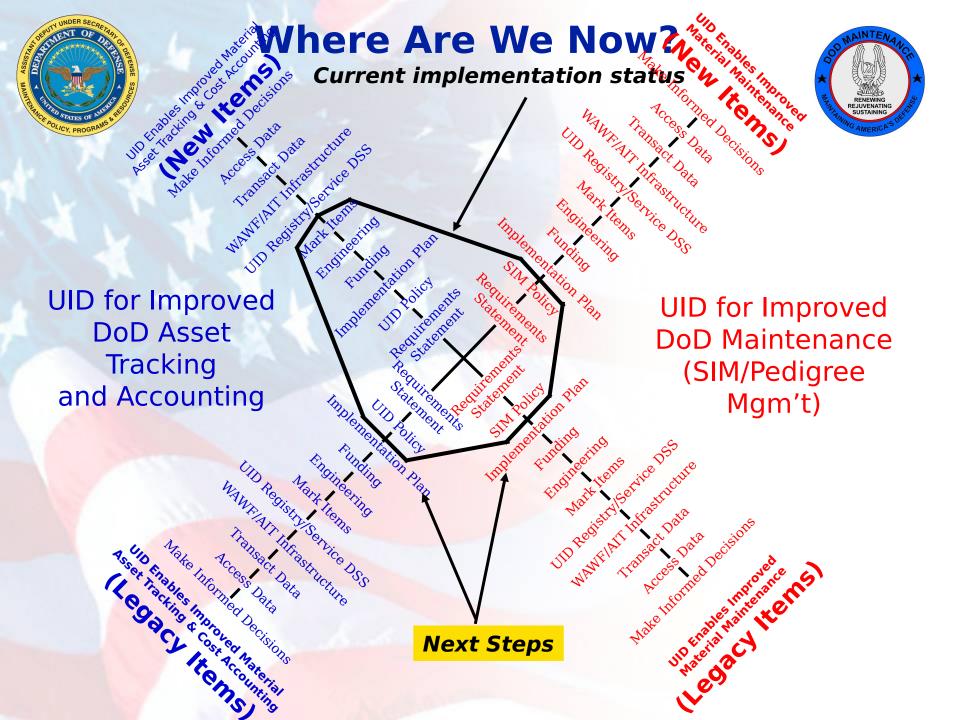
**Current MTTR** 

etc.











### UID Next Steps: Action Plans



#### USD(AT&L) Policy Memo 23 December, 2004

Milestone	Responsibility	Q1 FY05	Q2 FY05	Q3 FY05	Q4 FY05	FY 06	FY 07	FY 08	FY 09	FY10	FY11
Quality Assurance Plan for UID	DCMA		J an-05								
OSD UID Budget Guidance to Components	OSD AT&L			Apr-05							
Legacy UID Implementation Plan for DoD Depots	OSD L&MR			May-05							
UID Program Plans (ACAT 1D)	Pgm Mgr			J un-05							
IOC Legacy Marking Capability at Pilot Organic Depots	Military Departments				J ul-05						
FOC UID CONOPS for DoD Maintenance	OSD L&MR					Dec-05					
UID Program Plans (All Programs)	Pgm Mgr/Item Mgr					J an-06					
A <mark>ll GFE Meets UID Policy Requirements</mark>	Pgm Mgr/Item Mgr					J an-06					
All Existing Serialized Assets Entered in UID Registry	Pgm Mgr/Item Mgr						Sep-07				
FOC Legacy Marking Capability at All Organic Depots	Military Departments						Sep-07				
Complete UID Marking of All Legacy Items	Pgm Mgr/Item Mgr										Dec-10

## ONOPS for UID Implementation in DoD Depots

Department of Defense Concept of Operations (CONOPS)

for

Unique Identification (UID) Implementation and Employment within DoD's Organic Maintenance Depots



Preliminary Draft Version 3.2 October 2004

Prepared by the Office of the Secretary of Defense Maintenance Policy, Programs and Resources

- Acquire the authority to mark items
  - Alternatives and Preferred Alternative
- Identify which items need to be marked
  - Alternatives and Preferred Alternative
- Plan and budget for UID marking capability
  - Alternatives and Preferred Alternative
- Develop the capability to mark items
  - Alternatives and Preferred Alternative
- Determine where and how to apply the UID mark
  - Alternatives and Preferred Alternative
- Mark the item(s)
  - Alternatives and Preferred Alternative
- Obtain UID data for each individual item marked
  - Alternatives and Preferred Alternative
- Transact data to the UID Registry and other DSSs
  - Alternatives and Preferred Alternative





## Questions?





### Back-up Slides



### What Materiel is Being Uniquely Identified?

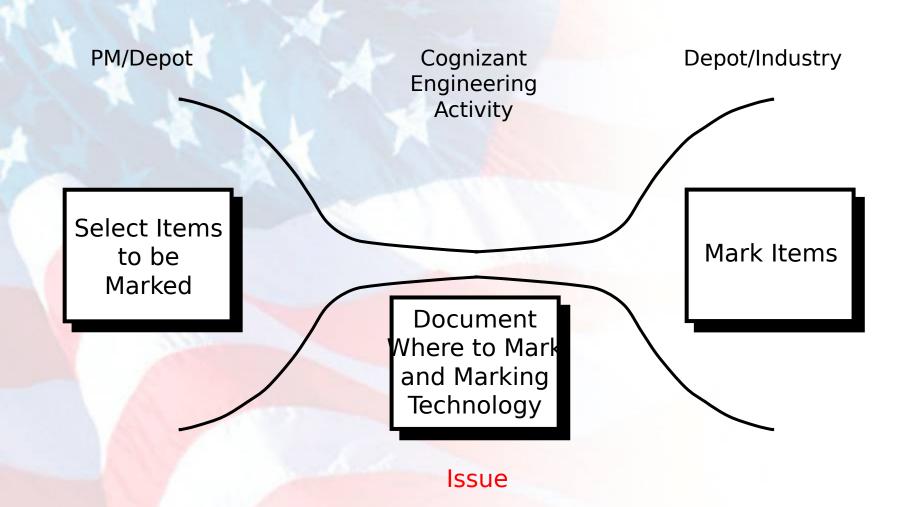


- **Program Managers** will identify items embedded in end items that require unique identification, including embedded subassemblies, components and parts. These embedded items will identified in a Contract Data Requirements List (CDRL) or Exhibit
- Contracting Officers shall include the clause at 252.211-7003, Item Identification and Valuation, in all solicitations and contracts that require delivery of items.
- All items delivered to the Department will be delivered under a contract line item and the Department's acquisition cost of each item will be identified under a contract line item or sub-line item.
- **Contractors** are required to provide unique item identification, or a DoD recognized unique identification equivalent, for all items delivered with an acquisition cost of \$5,000 or more and as designated by the requiring activity for items less than \$5,000.
- Under the clause at 252.211-7003, marking of items shall be in accord with MIL-STD-130L, Identification Marking of U.S. Military Property



#### UID Marking Bottleneck?

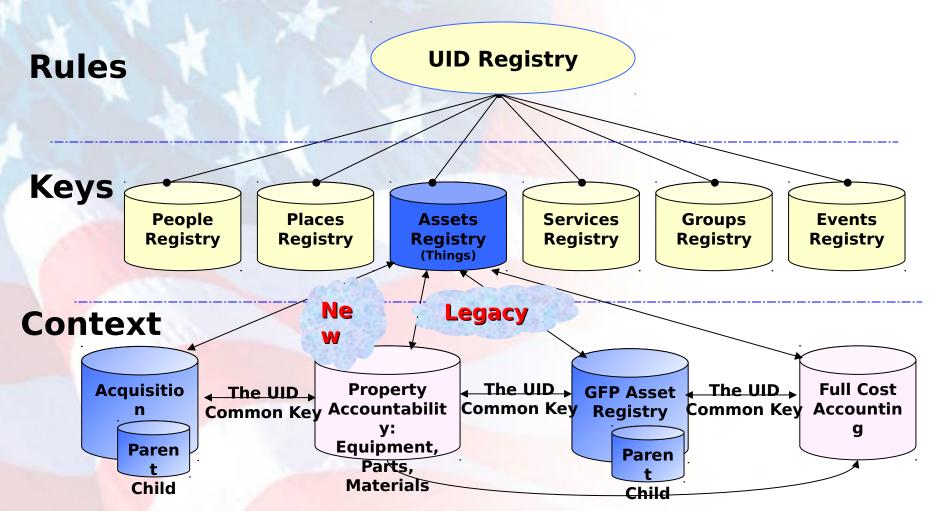






#### How is DoD Doing UID? UID Registry Concept

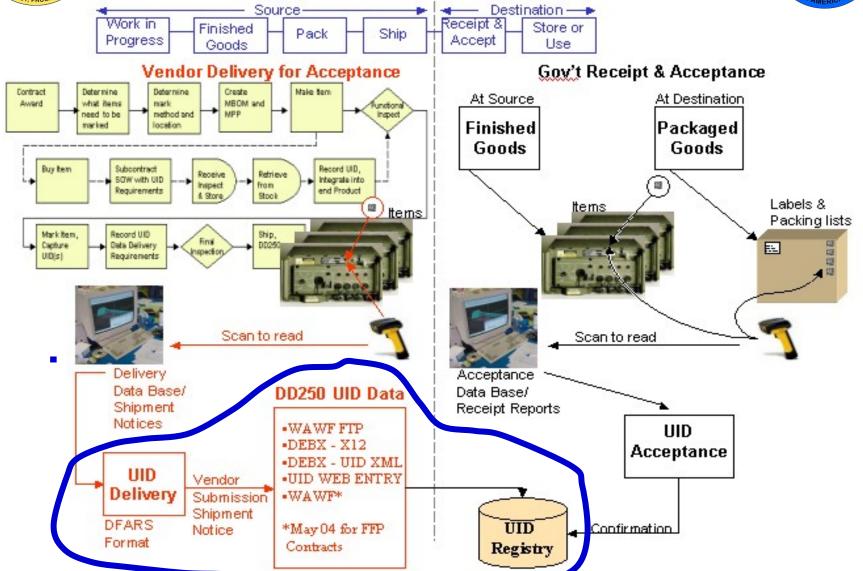






#### **Vendor Data Submission**



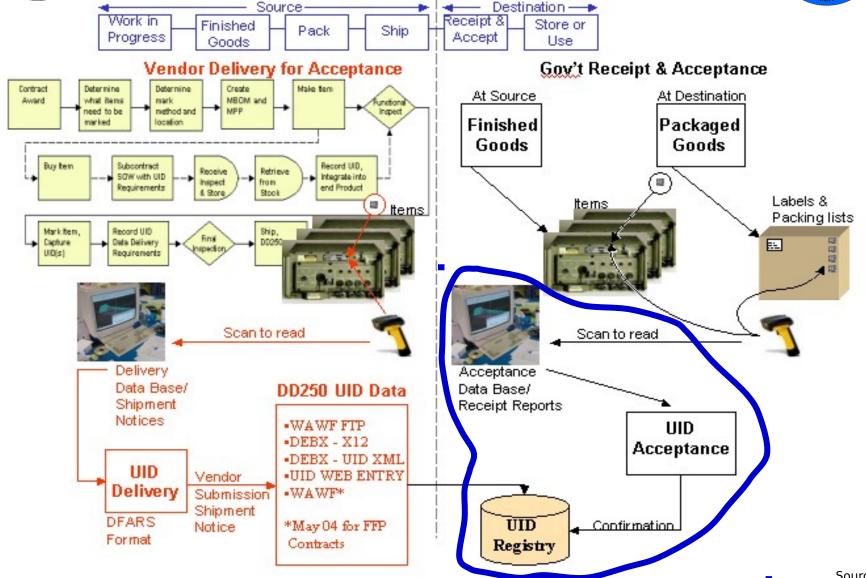


Source: DAU



### Receipt and Acceptance of UID Items





Source: DAU